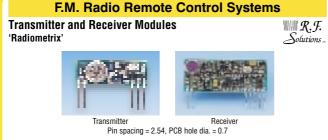
**RF** Control Systems Farnell



- Transmission distance up to 200
- metres Analogue and digital input/outputs
- 433MHz SAW controlled wide band
- Small size, PCB mounting SIL package Range up to 200 metres (300 metres 433MHz)
- FM transmission

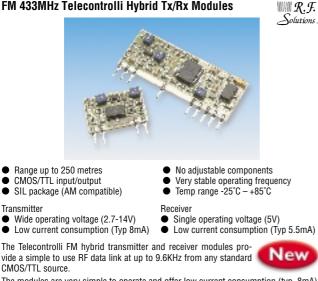
The Radiometrix radio transmitter and receiver modules are self contained, PCB mounting and capable of transferring analogue and digital data up to a distance of 200 metres. The modules are suitable for general purpose telemetry and remote control applications where small size and high data rates are required. Typical applications include domestic and commercial security, lighting control, garage door openers, remote control and access control.

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Transmitter Supply voltage Current consumption Radiated power (ERP) Frequency Range	6 to 9V dc 6mA @ 6V, 14mA @ 12V Vcc = 6V - 10dBm typical Vcc = 9V - 8dBm typical Vcc = 12V - 6dBm typical 433MHz 423MHz 420 metres	Receiver Supply voltage Current consumption Frequency Range Operating temperature	4.5 to 9V dc 14mA typical 433MHz Up to 200 metres (300 metres 433 MHz) -10°C to +55°C
Licence	DTI approved to MPT 1340		
Note: 433MHz Frequen	icy is now open to any teleme	try application in the UK	
			SSW135X

	Operating			Price	Each	
	Frequency	Order Code	1+	5+	10+	25+
Transmitter	433MHz	676-597				
Receiver	433MHz	676-603				

## FM 433MHz Telecontrolli Hybrid Tx/Rx Modules

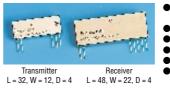


The modules are very simple to operate and offer low current consumption (typ. 8mA). Data can be supplied directly from a microprocessor or encoding device, thus keeping the component count down and ensuring a low hardware cost.

The module exhibits extremely stable electronic characteristics due to the use of 'Thick-Film' hybrid technology, which uses no adjustable components and ensures very reliable operation.

Supply voltage Supply current Frequency Radiated power Temperature Dimensions Sensitivity Max data rate EMC	Transmitter 2.5 – 14V 8mA 433.92MHz 10mW -25°C – +80°C 23 × 11.5 × 4mm N/A 9.6bps ETSI 300/220		Receiver 5V 5.5mA 433.92MHz N/A -25°C - +80°C 38 × 15 × 4mm typ -94/dBm 9.6bps		SSW398
Mftrs. List No. FM-RFT3-433 FM-RRF1-433A	Order Code 352-4358 352-4360	1+	Price Each 5+	10+	

## Transmitter and Receiver Modules 2nd Generation 'Radiometrix'



Solutions. Plug-in compatible with 503-370,

MM R.F.

- 503-381, 676-597 and 676-603
- Usable range to 300 metres
- Data rates to 14Kbps Conforms to ETS300-339 •
- ē Fully screened
- Applications include:- OEM remote con-• trol systems, radio data communications, Alarm system and access control

Second generation Radiometrix transmitters and receivers. They are direct plug-in replacement for the existing transmitter modules. The benefits include, higher data rate, improved EMC characteristics, thinner mechanical package.

	Transmitter	Receiver
Supply voltage	5V dc	5V dc
Current consumption	2.5mA	13mA
Frequency/Power	433MHz @ 10mW	433MHz
Max. data rate	14Kbps	14Kbps
RF Sensitivity	_	-105dBm (typically)
Operating temperature	-25°C to +85°C	-25°C to +85°C

Note: 433MHz frequency is now open to any telemetry application in the UK and Europe

Frequency Order Code 1+ 5+ 10+ 25+ Transmitter 433MHz <b>722-4953</b> Receiver 433MHz <b>722-4965</b>	Operating			Price	e Each	SSW340
	Frequency 433MHz	722-4953	1+	5+	10+	25+

## 433MHz FM Radio Transmitter and Receiver M. R.F. Miniature SIL package Range up to 400 metres Solutions • Fully shielded • Single supply voltage • Data rates up to 15Kbits/s Industry pin compatible QFMT5-434 QFMR5-434 New ● Temp range -20°C - +55°C High sensitivity Analogue, digital outputs •

- . No adjustable components
- Good shock resistance

These modules are compatible with:

676-597	676-603	722-4953	
FM-TX1-433	FM-RX1-433A	FM-TX2-433	

The QFMT5 and QFMR5 data link modules are miniature UHF radio modules which enable the implementation of a simple telemetry link up to 400 metres, and at data rates of up to 15Kbits/s.

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Signal strength output (RSSI)

Single conversion FM super-het

722-4965

FM-RX2-433A-5V

The QFMT5 and QFMR5 modules will suit one-to-one and multi-node wireless links in applications including building and car security, remote industrial process monitoring and computer networking. Because of its small size and low power requirements, these modules are ideal for use in portable battery powered wireless applications.

Supply voltage Supply current Frequency Radiated power Temperature	Transmitter 3 – 5.5V 12mA (max) 433.92MHz 10mW -25°C – +80°C	Receiver 5V 6mA 433.92MHz N/A -25°C - +80°C	
Dimensions Sensitivity	31 x 13 x 4mm N/A	49 x 21 x 4mm typ -107dBm	
Mitra		Brigg Each	SSW401

Mftrs.			Price Each		
List No.	Order Code	1+	5+	10+	
QFMT5-433	352-4371				
QFMR5-433	352-4383				

## F.M. Transceiver 'Radiometrix

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H = 23, W = 34, D = 12 (with pins) pins spacing 2.54 recommended PCB hole dia. 1.2

- M. R.F. Solutions .
- Half duplex data transmission at speeds up to 40 Kbit/s
- . Fast power up enable (1ms) for duty cycle power saving CMOS/TTL user interface
- On board data slicer, supply switches and
- antenna changeover
- ETS300-339 (CE) tested •
- For European use on 433.92MHz . Applications include: computer networks, laptop - PC - Printer links, high integrity wirefree fire/security alarms, building environment control/monitoring, remote meter-reading

Supplied in a miniature PCB mounting module this FM Radiometrix Transceiver implements a Bi-directional short range radio data link. The transceiver integrates a low power UHF FM transmitter and matching superhet receiver together with data recovery and TX/RX changeover make the transceiver ideal for high integrity one to one links or multi-node patch switch networks.

10Kbps data bandwidth